

WHAT IS CLAIMED IS:

1. An electrophoretic particle having a surface to which at least an amphipathic residual group derived from a reactive surfactant is fixed.

5

2. An electrophoretic particle according to Claim 1, wherein said electrophoretic particles are selected from the group consisting of pigment particles, polymer-coated pigment particles, and polymer particles colored with a dye.

10

3. An electrophoretic particle according to Claim 1, wherein said reactive surfactant has a reactive function group comprising an unsaturated hydrocarbon group.

15

4. An electrophoretic particle according to Claim 1, wherein said reactive surfactant has a hydrophobic portion comprising an aliphatic hydrocarbon chain having 4 - 30 carbon atoms.

20

5. An electrophoretic particle according to Claim 1, wherein said reactive surfactant has a hydrophobic portion comprising an ionic functional group.

25

6. An electrophoretic liquid comprising such

electrophoretic particles according to any one of Claims 1 - 5 and a dispersion medium.

7. An electrophoretic display comprising:
- 5 a pair of substrates,
a first electrode and a second electrode
which are disposed on the pair of substrates,
an electrophoretic liquid, comprising
electrophoretic particles and a dispersion medium,
10 disposed between the pair of substrates, said
electrophoretic particles being moved by applying a
voltage to said first and second electrodes to effect
display,
wherein each electrophoretic particle has a
15 surface to which at least an amphipathic residual
group derived from a reactive surfactant is fixed.

8. A process for producing electrophoretic particles, comprising the steps of:
- 20 adsorbing at least a reactive surfactant on a
particle surface, and
fixing an amphipathic residual group
attributable to the reactive surfactant to the
particle surface by a chemical reaction of a reactive
25 functional group possessed by the reactive surfactant.

9. A process according to Claim 8, wherein the

chemical reaction of the reactive functional group possessed by the reactive surfactant is polymerization reaction.

5 10. A process according to Claim 8 or 9, wherein the amphipathic residual group attributable to the reactive surfactant is fixed to the particle surface by a copolymerization reaction of the reactive surfactant with a comonomer.

10

15

20

25